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| PATENT ASSIGNMENT COVER SHEET |
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EPAS ID: PAT5556561

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| STEVEN C. ZIMMEL | 01/29/2019 |
| MICHAEL JAMES OTT | 01/28/2019 |
| DANNY WILLY AUGUST VERHEYDEN | 01/28/2019 |
| MICHAEL AARON KADAR-KALLEN | 01/28/2019 |
| GARY WILLIAM ADAMS | 02/04/2019 |
| ROBERT CHARLES FLAIG | 01/28/2019 |
| GREGORY J. SCHAIBLE | 01/28/2019 |
| RECEIVING PARTY DATA | |
| Name: | COMMSCOPE TECHNOLOGIES LLC |
| Street Address: | 1100 COMMSCOPE PLACE SE |
| City: | HICKORY |
| State/Country: | NORTH CAROLINA |
| Postal Code: | 28602 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16466766 |
| CORRESPONDENCE DATA | |
| Fax Number: | (612)332-9081 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 612-332-5300 |
| Email: | mcaufman@merchantgould.com |
| Correspondent Name: | DAVID G. SCHMALTZ |
| Address Line 1: | P.O. BOX 2903 |
| Address Line 2: | M&G COMMSCOPE |
| Address Line 4: | MINNEAPOLIS, MINNESOTA 55402 |
| ATTORNEY DOCKET NUMBER: | 02316.7150USWO |
| NAME OF SUBMITTER: | DAVID G. SCHMALTZ |
| SIGNATURE: | /David G. Schmaltz/ |
| DATE SIGNED: | 06/05/2019 |

PATENT

Total Attachments: 18

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ASSIGNMENT

WHEREAS, we, Steven C. ZIMMEL, Michael James OTT, Danny Willy August VERHEYDEN, Michael Aaron KADAR-KALLEN, Gary William ADAMS, Robert Charles FLAIG, and Gregory J. SCHAIBLE, made certain new and useful inventions and improvements for which we filed the following patent applications: International Patent Application Serial No. PCT/US2017/064671, filed December 5, 2017; which claims benefit from U.S. Patent Application Serial No. 62/430,343, filed December 5, 2016; and which claims benefit from U.S. Patent Application No. 62/565,323, filed September 29, 2017; all of which are entitled MULTI-FIBER FERRULE-LESS DUPLEX FIBER OPTIC CONNECTORS WITH MULTI-FIBER ALIGNMENT DEVICES.

AND WHEREAS, CommScope Technologies LLC, a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 1100 CommScope Place SE, Hickory, NC 28602 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid applications, and the right(s) to claim priority thereto, and in and to the applications, all patent applications based upon said applications, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patents of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patents for the aforesaid inventions and improvements to the Assignee

as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patents, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 29 day of January, 2019.



Steven C. ZIMMEL
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Michael James OTT
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Danny Willy August VERHEYDEN
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Michael Aaron KADAR-KALLEN
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Gary William ADAMS
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Robert Charles FLAIG
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Gregory J. SCHAIBLE
Inventor

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NOW THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid applications, and the right(s) to claim priority thereto, and in and to the applications, all patent applications based upon said applications, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patents of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patents for the aforesaid inventions and improvements to the Assignee

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IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20_____.

Steven C. ZIMMEL
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this 28th day of January, 2019.



Michael James OTT
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Danny Willy August VERHEYDEN
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Michael Aaron KADAR-KALLEN
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Gary William ADAMS
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Robert Charles FLAIG
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Gregory J. SCHAIBLE
Inventor

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NOW THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid applications, and the right(s) to claim priority thereto, and in and to the applications, all patent applications based upon said applications, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patents of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patents for the aforesaid inventions and improvements to the Assignee

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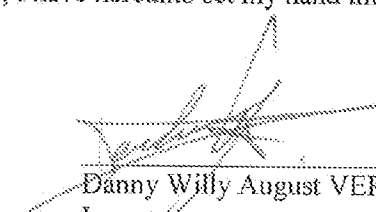
Steven C. ZIMMEL
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Michael James OTT
Inventor

Attorney Docket No. 02316.7150WOU1

IN TESTIMONY WHEREOF, I have hereunto set my hand this 28 day of
January, 2019.



Danny Willy August VERHEYDEN
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of
_____, 20____.

Michael Aaron KADAR-KALLEN
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of
_____, 20____.

Gary William ADAMS
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of
_____, 20____.

Robert Charles FLAIG
Inventor

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_____, 20____.

Gregory J. SCHAIBLE
Inventor

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Michael James OTT
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Inventor

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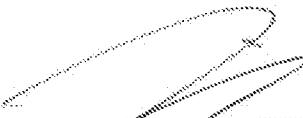


Michael Aaron KADAR-KALLEN
Inventor

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Gary William ADAMS
Inventor

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Robert Charles FLAIG
Inventor

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Gregory J. SCHAIBLE
Inventor

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Inventor

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Michael James OTT
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Danny Willy August VERHEYDEN
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Michael Aaron KADAR-KALLEN
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this 4th day of February, 2019.

Gary William Adams

Gary William ADAMS
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Robert Charles FLAIG
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Gregory J. SCHAIBLE
Inventor

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Inventor

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Michael James OTT
Inventor

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Danny Willy August VERHEYDEN
Inventor

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Michael Aaron KADAR-KALLEN
Inventor

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Gary William ADAMS
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Robert Charles FLAIG
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this 28TH day of JANUARY, 2019.

Gregory J. Schaible

Gregory J. SCHAIBLE
Inventor